

09/926084

JC03 Rec'd PCT/PTO 27 AUG 2001

SEQUENCE LISTING

<110> Meiji Seika Kaisha Ltd.

<120> Novel enzyme with decolorizing activity and method for decolorizing  
dyes by using the same

<130> A-306

<150> JP 11/050562

<151> 1999-02-26

<160> 8

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<211> 6

<212> PRT

<213> Geotrichum candidum Dec 1 (FERM BP - 7033)

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Thr Tyr Val Pro Glu Arg

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<210> 2

<211> 8

<212> PRT

<213> Geotrichum candidum Dec 1 (FERM BP - 7033)

09/926084-082701

<400> 2

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<210> 3

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<213> Geotrichum candidum Dec 1 (FERM BP - 7033)

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Thr Ala Gln Asp Arg

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Gly Ala Asp Pro Gln

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Pro Tyr Gly Pro Glu Thr

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<211> 498

<212> PRT

<213> *Geotrichum candidum* Dec 1 (FERM BP - 7033)

<400> 7

Met Arg Leu Ser Leu Phe Val Val Ser Val Ala Val Leu Val Gly Ser

1

5

10

15

Ser Ser His Val Asn Ala Ala Lys Leu Gly Ala Arg Gln Thr Arg Thr

20

25

30

Thr Pro Leu Leu Thr Asn Phe Pro Gly Gln Ala Pro Leu Pro Thr Leu

35

40

45

Thr Gln His Thr Thr Glu Ser Gly Ala Asn Asp Thr Ile Leu Pro Leu  
 50 55 60  
 Asn Asn Ile Gln Gly Asp Ile Leu Val Gly Met Lys Lys Gln Lys Glu  
 65 70 75 80  
 Arg Phe Val Phe Phe Gln Val Asn Asp Ala Thr Ser Phe Lys Thr Ala  
 85 90 95  
 Leu Lys Thr Tyr Val Pro Glu Arg Ile Thr Ser Ala Ala Ile Leu Ile  
 100 105 110  
 Ser Asp Pro Ser Gln Gln Pro Leu Ala Phe Val Asn Leu Gly Phe Ser  
 115 120 125  
 Asn Thr Gly Leu Gln Ala Leu Gly Ile Thr Asp Asp Leu Gly Asp Ala  
 130 135 140  
 Gln Phe Pro Asp Gly Gln Phe Ala Asp Ala Ala Asn Leu Gly Asp Asp  
 145 150 155 160  
 Leu Ser Gln Trp Val Ala Pro Phe Thr Gly Thr Thr Ile His Gly Val  
 165 170 175  
 Phe Leu Ile Gly Ser Asp Gln Asp Asp Phe Leu Asp Gln Phe Thr Asp  
 180 185 190  
 Asp Ile Ser Ser Thr Phe Gly Ser Ser Ile Thr Gln Val Gln Ala Leu  
 195 200 205  
 Ser Gly Ser Ala Arg Pro Gly Asp Gln Ala Gly His Glu His Phe Gly  
 210 215 220  
 Phe Leu Asp Gly Ile Ser Gln Pro Ser Val Thr Gly Trp Glu Thr Thr  
 225 230 235 240  
 Val Phe Pro Gly Gln Ala Val Val Pro Pro Gly Ile Ile Leu Thr Gly  
 245 250 255  
 Arg Asp Gly Asp Thr Gly Thr Arg Pro Ser Trp Ala Leu Asp Gly Ser

09526084-082701

260	265	270
Phe Met Ala Phe Arg His Phe Gln Gln Lys Val Pro Glu Phe Asn Ala		
275	280	285
Tyr Thr Leu Ala Asn Ala Ile Pro Ala Asn Ser Ala Gly Asn Leu Thr		
290	295	300
Gln Gln Glu Gly Ala Glu Phe Leu Gly Ala Arg Met Phe Gly Arg Trp		
305	310	315
Lys Ser Gly Ala Pro Ile Asp Leu Ala Pro Thr Ala Asp Asp Pro Ala		
325	330	335
Leu Gly Ala Asp Pro Gln Arg Asn Asn Asn Phe Asp Tyr Ser Asp Thr		
340	345	350
Leu Thr Asp Glu Thr Arg Cys Pro Phe Gly Ala His Val Arg Lys Thr		
355	360	365
Asn Pro Arg Gln Asp Leu Gly Gly Pro Val Asp Thr Phe His Ala Met		
370	375	380
Arg Ser Ser Ile Pro Tyr Gly Pro Glu Thr Ser Asp Ala Glu Leu Ala		
385	390	395
Ser Gly Val Thr Ala Gln Asp Arg Gly Leu Leu Phe Val Glu Tyr Gln		
405	410	415
Ser Ile Ile Gly Asn Gly Phe Arg Phe Gln Gln Ile Asn Trp Ala Asn		
420	425	430
Asn Ala Asn Phe Pro Phe Ser Lys Pro Ile Thr Pro Gly Ile Glu Pro		
435	440	445
Ile Ile Gly Gln Thr Thr Pro Arg Thr Val Gly Gly Leu Asp Pro Leu		
450	455	460
Asn Gln Asn Glu Thr Phe Thr Val Pro Leu Phe Val Ile Pro Lys Gly		
465	470	475
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Gly Glu Tyr Phe Phe Leu Pro Ser Ile Ser Ala Leu Thr Ala Thr Ile

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490

495

Ala Ala

498

<210> 8

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<212> DNA

<213> *Geotrichum candidum* Dec 1 (FERM BP - 7033)

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0926084-082704